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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/073,575

02/12/2002

Lewis Lee Knox

5964

24212

7590

03/05/2004

EXAMINER

ALLEN, ANDRE J

OUR PAL ASIJA

ASIJA HOUSE

7 WOONSOCKET AVENUE

SHELTON, CT 06484-5536

ART UNIT

PAPER NUMBER

2855

DATE MAILED: 03/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/073,575	KNOX ET AL.	
	Examiner	Art Unit	
	Andre J. Allen	2855	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on pet. filed 4-14-03.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1,2,5-10 is rejected under 35 U.S.C. 102(b) as being anticipated by Hattori.

Regarding claims 1,5-8 Hattori teaches a piston mounted magnet 14 in cylinder mounted on the inside wall of each tire of said transport vehicle (fig. 2); a permanent magnet 12a-12b mounted perpendicular to said piston mounted magnet and mounted inside each said tire of said transport vehicle (col. 6 lines 58-68); a transducer 1 mounted on each rim of each said tire of said transport vehicle; and an electronics module (fig. 18) mounted in said transport vehicle and connected to each said transducer by at least one electrical conductor (fig. 1).

Regarding claim 2 Hattori teaches a electronics module comprising a micro-Controller 32 and a dplay 33.

Regarding claims 9 and 10 Hattori teaches mounting at least one magnet 14 on the inside wall of each tire 2 of said transport vehicle;

b) mounting a sensor 1 on the rim of each said tire of said transport vehicle;

c) transducing 71 the output of said sensor into electrical pulses;

d) communicating said pulses to an electronics module through at least one electrical conductor 73;

e) computing 32 tire pressure value as a function of said pulses; and

displaying 33 said tire pressure value for each said tire.

a micro-controller 32 programmed to calculate said

tire pressure value as a function of said pulses.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hattori.

Regarding claim 3 Hattori teaches the transport vehicle to be a automobile and the module to be located under the driver seat (col. 11 lines 41-42). Hattori et al does not teach the module to be located in the passenger compartment. However, it would have been obvious one having ordinary skill in the art of tire monitoring devices to modify the device taught by Hattori with a mounting location of the electronics module within the passenger compartment for the purpose of providing a close proximity of the module to the driver which allows for convenient access to the said module for tire monitoring.

Regarding claim 4 Hattori does not teach the vehicle to be an aircraft. However it would have been obvious to one having ordinary skill in the art to modify this device to be compatible with any type of vehicle having at least one tire containing an air pressure, since the functionality of this device is to inform a driver of tire information which would clearly suggest any vehicle readily available to the public.

Conclusion


The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patents 4163208, 5526861, 66477771, 5130694 and 5814725 all teach magnetic tire pressure monitoring apparatus's.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andre J. Allen whose telephone number is 571-272-2174. The examiner can normally be reached on mon-fri 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Lefkowitz can be reached on 571-272-2180. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A.J.A
Art Unit 2855


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